AMENDMENTS TO THE SPECIFICATION

Beginning on page 3, line 28, please amend the paragraph to read as follows:

Fig. 7 depicts beam forming optics suitable of use with the optical marking mechanism shown in [[Fig.2.]] Fig. 2;

Beginning on page 3, line 31, please amend the paragraph to read as follows:

Fig. 8 depicts one device in which the functions of optical power attenuation and power monitoring in the beam former described in [[Fig.7]] Fig. 7 are combined [[.]] ;

Beginning on page 4, line 1, please amend the paragraph to read as follows:

Fig. 9 depicts one pattern generator suitable for use with the optical marking mechanism of [[Fig.2]] Fig. 2, in which angularly separated beams corresponding to the bands and the tracks within a band are both formed by diffractive optical elements and simultaneously focused on the tape[[.]];

Beginning on page 4, line 5, please amend the paragraph to read as follows:

Fig. 10 depicts an alternative embodiment of a pattern generator that employs segmented mirror to generate a plurality of parallel beams, followed by a diffractive optical element to generate the tracks within each hand, and further followed by a lens array to focus the beams onto the tape[[.]];

Beginning on page 4, line 10, please amend the paragraph to read as follows:

Fig. 11 depicts the use of a segmented mirror tilted at about 45 degrees to create a number of parallel beams corresponding to the number of bands depicted in [[Fig.9.]] Fig. 9;

B ginning on page 4, line 13, please amend the paragraph to read as follows:

Fig. 12 depicts one segmented mirror for creating the parallel beams depicted in [[Fig.9.]] Fig. 9;

Beginning on page 4, line 16, please amend the paragraph to read as follows:

Fig. 13 depicts yet another method of creating a number of parallel beams using a two-beam segmented mirror in tandem with an optical birefringent plate[[.]] ; and

Beginning on page 8, line 10, please amend the sentence to read as follows:

One example of the type of servo track pattern that can be formed by the systems and methods described herein is depicted in ~~Figs 3 and 4~~ Figs. 3 and 4.

Beginning on page 9, line 17, please amend the paragraph to read as follows:

Turning to [[Fig.5]] Fig. 5, it is shown that the depicted marking mechanism 12 of Fig. 2 can include a track pitch adjustment mechanism that can adjust the spatial characteristics of the patterns being generated. In one practice, the relative pitch, p, between servo tracks can be determined according to the following relationship,

$$p = \Delta s \cos\alpha$$

where Δs is the track pitch at α equal zero degree, and Δs is dictated by the DOE parameters and the focal length of lens, shown 50 in [[Fig.2.]] Fig. 2.

Beginning on page 12, line 32, please amend the paragraph to read as follows:

Turning to [[Fig.11]] Fig. 11 one suitable beam separator, a segmented mirror, 120 is depicted in detail. Specifically, Fig. 11 depicts an incoming beam 121 that is directed to a segmented mirror beam separator 120, which creates a plurality of beams 122 through 125. The

segmented mirror 120 provides an optical flat coated with a pre-determined reflectively, C1 through C5, at each of the appropriate segment is tilted at [[45◦°]] 45° to the incident beam, 121. N parallel beams, 122 through 125, are generated upon successive bounces off the exit surface with an intensity of 1 / Nth of the incident beam. One example of a design for the segmented mirror 120 is depicted in Figs. 12A and [[12 B]] 12B, where the reflectivity A through E for a four beam generator are 0.75, 0.667 0.5, 0, and 1 respectively.

Beginning on page 13, line 23, please amend the sentence to read as follows:

Turning now to [[Fig.13]] Fig. 13, there is shown yet another method of generating multiple parallel beams.

Beginning on page 14, line 14, please amend the sentence to read as follows:

One particular embodiment of a stabilizer 34 that can be employed with the systems described herein includes the stabilizer 130 depicted in Figs. [[14A&B.]] 14A and 14B.

Beginning on page 15, line 9, please amend the sentence to read as follows:

In one particular embodiment, the verifier 24 includes [[a]] an optical element similar to that [[disclose]] disclosed in U.S. Patent Application No. 09/191,766, now U.S. Patent 6,246,535, entitled Optical Apparatus For Tracking A Magnetic Tape, by Panish et al., and assigned to the assignee hereof, hereafter called the focalizer.